

Amendment

Amendment to Claims

Please cancel claims 1 – 15, 22 and 25 and please amend claim 16 as follows:

1. Cancel claims 1 – 15.

16. (Currently Amended) An apparatus comprising:

a counter to count packet errors in a wireless transmission, said counter to count a number of packet errors in a short observation window and to count a number of packet errors in a long observation window[;] and wherein the counter comprises:

a plurality of registers coupled in a serial chain, said plurality of registers to receive a stream of packet status indications at a head of the serial chain, said plurality of registers to clock the stream of packet status indications through the plurality of registers;

a first adder to add the number of packet errors in the short observation window from among packet status indications at a first set of the plurality of registers comprising the short observation window and to provide a first result to the comparator; a second adder to add the number of packet errors in the long observation window from among packet status indications at a second set of the

plurality of registers comprising the long observation window and to provide a second result to the comparator;

a comparator to compare the number of packet errors in the short observation window to a first threshold and to compare the number of packet errors in the long observation window to a second threshold; and

a controller, using power control that is capable of being open loop or capable of being closed loop, wherein said open loop power control enables a transmitter to unilaterally modify the power based on packet errors—to increase a power level of the wireless transmission if the number of packets in the short observation window exceeds the first threshold and to decrease the power level of the wireless transmission if the number of packet errors in the long observation window falls below the second threshold.

17. (Original) The apparatus of claim 16 wherein the comparator is further to compare the number of packet errors in the long observation window to a third threshold, and wherein the controller is further to increase the power level of the wireless transmission if the number of packet errors in the long observation window exceeds a third threshold.

18. (Original) The apparatus of claim 16 wherein said wireless transmission comprising a plurality of packets of data sent to a remote destination, said remote destination to perform a cyclic redundancy check (CRC)

on each of the plurality of packets, each said CRC failure to indicate a packet error;

said counter to receive a negative acknowledgement (NACK) message from the remote destination for each CRC failure, count a number of NACK messages corresponding to the number of packet errors in the short observation window, and count a number of NACK messages corresponding to the number of packet errors in the long observation window.

19. (Original) The apparatus of claim 16 wherein said wireless transmission comprises a plurality of packets of data received from a remote source, the apparatus further comprising:

an input device to receive the plurality of packets of data and perform a cyclic redundancy check (CRC) on each of the plurality of packets, each said CRC failure to indicate a packet error;

said counter to count a number of CRC failures in the short observation window and a number of CRC failures in the long observation window; and

said controller to send an instruction to the remote source to increase the power level if the number of CRC failures in the short observation window exceeds the first threshold and to send an instruction to the remote source to decrease the power level if the number of CRC failures in the long observation window is below the second threshold.

20. (Original) The apparatus of claim 19 wherein the controller is further to send the instruction to the remote source to increase the power level if the number of CRC failures in the long observation window exceeds a third threshold.

21. (Original) The apparatus of claim 19 wherein the instruction to increase the power level and the instruction to decrease the power level comprise Link Manager Protocol (LMP) instructions.

22. Cancel claim 22

23. (Original) The apparatus of claim 16 further comprising:
a plurality of registers to programmably store the first threshold and the second threshold, and to provide the first threshold and the second threshold to the comparator.

24. (Original) The apparatus of claim 16 further comprising:
a packet counter to count a number of packets in the wireless transmission and provide the number of packets to the controller, said controller to decrease the power level of the wireless transmission based on the long observation window only after the number of packets fills
the long observation window.

25. Cancel claim 25.

26. (Previously added) An apparatus comprising:

a counter to count packet errors in a wireless transmission, said counter to count a number of packet errors in a short observation window and to count a number of packet errors in a long observation window;

a comparator to compare the number of packet errors in the short observation window to a first threshold and to compare the number of packet errors in the long observation window to a second threshold;

a controller to increase a power level of the wireless transmission if the number of packets in the short observation window exceeds the first threshold and to decrease the power level of the wireless transmission if the number of packet errors in the long observation window falls below the second threshold; and

wherein the counter comprises:

a plurality of registers coupled in a serial chain, said plurality of registers to receive a stream of packet status indications at a head of the serial chain, said plurality of registers to clock the stream of packet status indications through the plurality of registers;

a first adder to add the number of packet errors in the short observation window from among packet status indications at a first set of the plurality of registers comprising the short observation window and to provide a first result to the comparator; a second adder to add the number of packet errors in the long